Innovation for Canada's Wood Products Industry

Canada's
Wood Products
Research Institute

Forintek
Canada
Corp.

Annual Report

1988 – 1989

10th Anniversary

89-06000/

Forintek's Mission

to be the leading force in the technological advancement of the Canadian wood products industry, through the creation and implementation of innovative concepts, processes, products and education programs.

THE NEW WAY AHEAD

Ten years old: 1989 marks the completion of Forintek's first decade and the beginning of its second.

A great deal has happened between 1979's privatization and this year's Tenth Anniversary. In 1984, Forintek Canada Corp. published a plan setting out its direction for the next five years. Called *The Way Ahead*, the plan delineated a private, non-profit R&D institute that would develop and transfer technology through a unique partnership. Forintek would recruit and maintain private companies engaged in wood products manufacture to provide financial support and to implement technology co-operatively. These members would be the essential driving force in the Forintek Partnership.

Forintek's federal and provincial government supporters were committed to fund programs ensuring the partnership's effectiveness over the intermediate and long term. Contract funding from these supporters would carry many innovative projects through the critical stage of prototype evaluation and pilot plant scale-up, helping transfer them efficiently to industry.

In this central vision, *The Way Ahead* has been a solid success. The Forintek Partnership has created, adapted, and transferred much innovative technology to the Canadian wood products industry. This technology has had a major and measurable impact on improving industry's productivity, reducing its costs, and safeguarding its markets.

The world-class quality of this work is substantiated by the numerous awards, patents, and individual and group distinctions which Forintek has received in recent years, both nationally and internationally.

Achievements, however, must inspire further action. To say *The Way Ahead* has succeeded is to say that it has served its purpose. As a guide through the changing world of the 1990s, Forintek has prepared a strategic plan that defines its "new way ahead." The plan mobilizes Forintek's technical leadership to address the challenges that the wood products industry faces now, and will face in the future, in order to compete strongly in global markets. To meet these challenges, the Forintek Partnership will direct its distinctive technical excellence in the following ways:

1. Forintek R&D effort will go toward *ensuring the manufacturing competitiveness* of Canada's wood products industry in worldwide markets. This thrust will include optimizing existing processes in order to reduce production costs with minimum capital investment; transferring and adapting new technology to areas of the Canadian wood products industry where this technology is not currently used; and developing new production methods and processes.
2. Forintek will help *expand applications for Canadian wood products* in markets around the world. This technology initiative will expand conventional uses for existing wood commodities, develop non-conventional uses, and regain lost markets where wood retains natural or unique advantages.
3. Forintek will also use technology to help *ensure the global marketing competitiveness* of Canada's wood products industry. This includes improving existing products, developing new products, differentiating products for niche marketing, and working with codes and standards authorities to safeguard markets for Canadian wood products.
4. Forintek will help *maximize the value extracted from the Canadian forests of today and tomorrow.* This technology will employ now-underutilized parts of the resource, including specific tree species and overmature, dead, or dying timber. It will participate in tree improvement advances to retain desirable wood characteristics in tomorrow's trees, and will develop technology that extracts maximum value from Canada's forest resource.

The need to extract maximum value from Canada's trees arises from two things. One is a resource base steadily declining in size and quality as it increases in cost. An equally important element is industry overcapacity, the result of flattening sales in traditional markets. Unless new markets for wood products can be found, downward price pressures will continue.

During 1988-89, the Forintek Partnership achieved impressive results. A full list can be found in Forintek's new publication *Partners in Innovation*. Here are some highlights:

- Flexoguide, a new sawguide for gang-edgers, moved to mill trials;
- Curve sawing techniques boosted small-log lumber recovery in the mill;
- Computer models and technical advice improved productivity of member sawmills;
- Forintek and several member companies examined Scandinavian technology for reducing kerf on large circular saws;

- A new saw control system sensing saw position underwent mill trials;
- Sales of the award winning infrared moisture sensor increased through our licensee Novax Industries, and lumber buyers came to equate the sensor with improved product quality;
- The video "Kiln Drying for Quality" was produced and achieved widespread use in training mill personnel;
- Forintek's kiln course and kiln-operator manual were updated;
- A new high-speed veneer incisor was developed, and a prototype is on its way to mill trials;
- Charged-droplet spray technology was adapted to protect lumber against sapstain, and a large-scale pilot plant became operational;
- Forintek data enabled industry to adopt alternatives to chlorophenates for wood protection;
- Years of Forintek data developed on the structural behavior of lumber and panel systems were analyzed and summarized for the 1990 revision of the National Building Code of Canada;
- Forintek provided most of the Canadian input to the Canada-U.S. Light Frame Structures Program, critical to long-term export sales;
- Forintek participated in an international research program to show how wood systems could be made to meet code requirements for fire performance;
- Technology for dimensionally stable waferboard was scaled up to produce full-size panels;
- Waferboard using lignin-phenol resin was shown to meet all Canadian product and performance standards;
- Forintek hosted the 21st meeting of the CIB timber-engineering working group uniting scientists, designers, and code committee members from around the world;
- Our patented lignin resin, commercialized with a Canadian licensee, underwent successful mill trials;
- Moisture-tolerant adhesives completed mill trials;
- Mill trials showed strength properties of laminated veneer lumber made from aspen are equal or superior to those of commercial softwood LVL;
- The Douglas-fir Task Force linked wood characteristics to silviculture and end-product values, laying the groundwork for similar task forces on other important tree species.

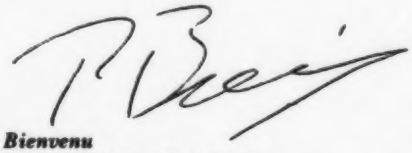
Such achievements did not occur by themselves: skilled, dedicated people toiled to make this technology happen. Forintek's scientists, engineers, technologists, managers, and support staff contributed, each in his or her own way, to the achievements and successes that marked the year. This is the group that among them undertakes almost two-thirds of the total amount of wood products research performed every year in Canada. The many individual and group distinctions that they won bring to Forintek a high level of credibility wherever wood products and their associated data are discussed.

Financial performance this year was not as encouraging as our technology performance. Anticipated revenue not realized late in the year, combined with expenditures necessary to achieve the work program, resulted in a deficit position at year end. Management has initiated prudent action that should rebuild the financial position over the next two years.

The heart of the Forintek Partnership is its Board of Directors. Sincere thanks are due to the Directors for their strong and dedicated service. Particular thanks are due to Messrs. Mark Gunther, Cliff MacKay, Gaston Malette, Fred McDougall, and Gilbert Tardif. These five gentlemen are resigning after a total of almost 30 years of service.

Forintek's roots extend to the Forest Products Laboratories established by the Government of Canada more than seventy years ago. Today, the partnership that surrounds and supports Forintek carries on the tradition of these roots in new ways adapted to today's challenges. Because of this, the Forintek Partnership will continue to provide Canada's wood products industry with the technology that will let it prosper in worldwide markets into the 21st century.

K.A. French
President & Chief Executive Officer



P. Bienvenu
Chairman of the Board of Directors

NEW MARKETS FOR WOOD PRODUCTS

USE OF WOOD IN NORTH AMERICAN BUILDING CONSTRUCTION

— In estimated billions of Canadian dollars FOB mill —

	CANADA	NORTH AMERICA
Current residential:		
Lumber	0.6	5.0
Panels	0.3	2.0
Current non-residential:		
Lumber	0.2	1.0
Panels	0.1	0.7
Current Totals: (Structural & non-structural)	1.2	8.7
Potential non-residential: (structural only)	0.9	5.0

[Source: Forintek Canada Corp. Economics & Market Research Department]
[New building only — does not include renovations and improvements]

The North American housing market, long the mainstay of Canada's wood product sales, is volatile. The *non-residential* sector, however, is both a stable and a growing construction market. According to economic predictions summarized above, "non-res" offers a vast potential for wood product use — about five billion dollars yearly — in North America. This is almost as much as today's consumption of wood products for housing.

Successful penetration of this market requires two things:

1 – Developing ways to incorporate primary lumber and panelboard products into integrated wood systems that can be marketed on the basis of reliability and predictable structural and fire performance; and

2 — Educating developers, architects, engineers, insurors, specifiers, and inspection agencies that wood building systems provide cost-effective, high-performance space within existing codes.

Both these goals are furthered by the new Forintek laboratory now under construction in Vancouver. This 102,000-square-foot, two-storey complex has been designed to use wood products in a cost-competitive manner. The new design does so and also meets all existing fire and structural codes *(see opposite)*.

The demonstration aspect of Forintek's new laboratory eloquently states the case for wood-based "non-res" construction. The aim is to assist industry to convert the potential dollars in the circled areas above into real dollars in its bank accounts.

THE NEW FORINTEK WESTERN LABORATORY

Long-awaited funding was announced in May 1988 for a new building to house Forintek's headquarters and western operations. When completed in autumn 1990, the building will give Forintek its first permanent home.

We are grateful to Forestry Canada and to the University of British Columbia for our present facility, which we have occupied since 1979 in the absence of any formal arrangement. However, this building is unsuitable for our future purposes.

Last year's funding announcement also provided for a new office building for the Forest Engineering Research Institute of Canada (FERIC). Forintek is responsible for constructing both FERIC's building and its own.

Cost of the complex is $30 million. Funding is by a partnership of Forintek members in British Columbia ($2.5 million), FERIC members ($0.5 million), the Government of Canada through the Minister of Western Economic Diversification ($13.5 million), and the Province of British Columbia through the Minister of Forests ($9.5 million plus land valued at $4 million). The complex will be located on the south side of the campus of the University of British Columbia.

The Forintek building comprises occupancies as varied as offices, research laboratories, and a pilot plant. The building's load-bearing wood-frame construction meets all applicable earthquake, structural, and fire codes, as well as exacting requirements for competitive capital and operating costs, structural firmness, future adaptability, appearance, and long-term durability.

These advantages will enable the new building to function as a demonstration project, showing architects, engineers, builders, end users, owners, specifying authorities, and others that wood is a competitive alternative for non-residential construction as well as for housing *(see opposite)*. It has already been determined through tendering that wood frame construction creates a significant cost advantage in the project. The challenge now for industry is to develop and market the wood systems that will open new markets for Canadian wood products worldwide.

Architectural rendering of the new Forintek laboratory as it will appear.

Operating Fund

Balance Sheet as at March 31, 1989

Assets	1989	1988
Cash	$ 236,689	$ 46,569
Short-term investments, at cost	998,730	801,978
Accounts receivable	2,258,911	2,974,756
Due from Capital Fund	47,813	—
Due from joint venture building project (Note 4)	8,040	—
Work-in-progress	58,526	128,684
Prepaid expenses	109,811	126,736
Building project	—	264,928
	$3,718,520	$4,343,651
Liabilities and Fund Balance		
Accounts payable and accrued liabilities	$1,333,549	$1,219,947
Due to Capital Fund	—	230,751
Deferred revenue	193,651	223,798
Deferred pension liability (Note 3)	354,000	140,000
	1,881,200	1,814,496
Fund balance	1,837,320	2,529,155
	$3,718,520	$4,343,651

Approved by the Directors

Director **Director**

See accompanying notes to financial statements.

Capital Fund
Balance Sheet as at March 31, 1989

Assets	1989	1988
Short-term investments, at cost	$ 86,923	$ 235,199
Due from Operating Fund	—	230,751
Advances to joint venture building project (Note 4)	1,855,932	—
Fixed		
Laboratory and shop equipment	9,315,326	8,358,218
Office equipment, furniture and fixtures	1,090,398	971,622
Automotive	28,281	15,440
	10,434,005	9,345,280
Less accumulated depreciation	6,274,714	5,471,276
	4,159,291	3,874,004
	$6,102,146	$4,339,954
Liabilities and Fund Balance		
Due to Operating Fund	$ 47,813	$ —
Fund balance	6,054,333	4,339,954
	$6,102,146	$4,339,954

Approved by the Directors

Director **Director**

See accompanying notes to financial statements.

Operating Fund

Statement of Revenue and Expense and Fund Balance
For the Year Ended March 31, 1989

	1989	1988
Revenue		
Contributions and industry member assessments	**$10,447,371**	$ 9,624,244
Contract fees	**3,164,403**	3,777,823
Other income	**395,047**	343,253
	$14,006,821	$13,745,320
Expense		
Manpower	**9,907,854**	8,937,770
Laboratory operating	**2,209,984**	2,162,306
Premises	**1,088,874**	1,101,185
Administrative	**887,512**	692,748
	14,094,224	12,894,009
Excess (deficiency) of revenue over expense	**(87,403)**	851,311
Appropriations to Capital Fund	**(604,432)**	(670,607)
Increase (decrease) in fund balance	**(691,835)**	180,704
Fund balance at beginning of year	**2,529,155**	2,348,451
Fund balance at end of year	**$ 1,837,320**	$ 2,529,155

Capital Fund

Statement of Changes in Fund Balance
For the Year Ended March 31, 1989

	1989	1988
Fund balance at beginning of year	**$4,339,954**	$4,382,847
Capital contributions from members for		
Pilot plant equipment	**80,000**	–
Joint Venture building project (Note 4)	**1,855,932**	–
Other income	**18,903**	25,722
Appropriations from Operating Fund	**604,432**	670,607
	6,899,221	5,079,176
Depreciation	**(844,888)**	(739,222)
Fund balance at end of year	**$6,054,333**	$4,339,954

See accompanying notes to financial statements.

1. Summary of significant accounting policies

The Corporation was incorporated under Part II of the Canada Corporations Act and prepares its financial statements in accordance with the fund method of accounting.

In the event of dissolution, the net assets of the Corporation are to be distributed to a similar not for profit organization for the purposes of continuing scientific research.

Operating Fund

a. Recognition of revenue

Revenue from government contributions and industry member assessments is recorded on the accrual basis of accounting.

Revenue from contracts is recorded based on the percentage of completion method of accounting.

Unbilled contract revenue, included on the balance sheet as work in progress, represents the excess of contract revenue earned over billings on specific contracts. Deferred contract revenue, included on the balance sheet as deferred revenue, represents the excess of contract billings over revenue earned on specific contracts.

b. Appropriations to Capital Fund

At their discretion, the directors make appropriations to the Capital Fund to provide for improvements and replacement of capital assets.

c. Premises expenses

The Government of Canada has provided to the Corporation the premises occupied by the eastern and western laboratories for a nominal amount of $1 per year. The economic benefit of these arrangements has not been reflected on the financial statements of the Corporation.

Costs of renovations and short-term improvements are charged to premises expense in the year incurred.

d. Accounts payable

Operating Fund accounts payable include commitments to other parties related to revenue earned in the year.

Capital Fund

a. Fixed assets and depreciation

The fixed assets contributed by the Government of Canada at incorporation, on April 1, 1979, have been recorded at their fair market value at that time ($4,092,967) as determined by appraisal. Assets subsequently acquired have been recorded at cost.

Depreciation is recorded in the Capital Fund using the straight-line method over the estimated useful lives of both contributed and acquired assets at the following rates.

Laboratory and shop equipment	10% to 14%
Office equipment, furniture and fixtures	12% to 14%
Automotive	33%

b. Accounts payable

Commitments to purchase fixed assets are recorded as accounts payable when a purchase order is issued.

c. Capital contributions

Industry members' contributions to capital are recognized in the period in which they are received.

2. Income taxes

The Corporation qualifies as a "non-profit corporation for scientific research and experimental development" under the Income Tax Act and as such will be exempt from income taxes provided that it makes no part of income available for the benefit of any member, does not acquire control of any other corporation, does not carry on any business and in each year spends in Canada not less than 90% of its income on scientific research and experimental development.

3. Pension plan

The Corporation maintains a contributory defined benefit pension plan. Based on the actuarial valuation as at January 1, 1989, the estimated present value of accrued benefits at March 31, 1989 is $7,718,000 (1988 — $6,608,000); the pension fund assets, at adjusted market values at March 31, 1989 were $9,291,000 (1988 — $8,258,000).

The Corporation's present funding practice is to match employee contributions to the plan and accrue the remainder of the annual pension expense as a deferred pension liability. It is estimated that the present value of accrued pension benefits will equal the adjusted market value of pension fund assets by 1994.

4. Joint Venture building project

A project to construct new facilities for the Corporation and the Forest Engineering Research Institute of Canada (F.E.R.I.C.) on the campus of the University of British Columbia was initiated during the year. The project is scheduled to be completed in March 1991 and is anticipated to cost a total of $30,000,000, of which $22,709,000 is budgeted for the Corporation's building, $3,291,000 for the F.E.R.I.C. building and $4,000,000 is represented by a contributed leasehold interest in land. Under the terms of the agreement, project management and administration are the responsibility of Forintek.

The project is being funded by the Government of Canada, the Province of British Columbia and the joint venturers. Funding from the Government of Canada and the Province of British Columbia is contingent upon receipt of funding from Forintek and F.E.R.I.C. of $3,000,000. To date, F.E.R.I.C. members have contributed their commitment of $500,000. Forintek members have contributed $1,855,932 of their total commitment of $2,500,000. When the project is completed, the total cost will be allocated between the two participants based on a predetermined formula.

The Corporation, as Administrator of the project, is liable for the liabilities of the project which totalled $221,538 at March 31, 1989.

The assets and liabilities of the joint venture building project are detailed in Schedule I; contributions are detailed in Schedule II.

Auditors' Report

The Members,
Forintek Canada Corp.

We have examined the operating fund and capital fund balance sheets of Forintek Canada Corp. as at March 31, 1989 and the operating fund statement of revenue and expense and fund balance and the capital fund statement of changes in fund balance for the year then ended. Our examination was made in accordance with generally accepted auditing standards, and accordingly included such tests and other procedures as we considered necessary in the circumstances.

In our opinion, these financial statements present fairly the financial position of the Corporation as at March 31, 1989 and the results of its operations and the changes in its fund balances for the year then ended, in accordance with generally accepted accounting principles applied on a basis consistent with that of the preceding year.

Touche Ross & Co.

Vancouver, B.C.
May 12, 1989

Chartered Accountants

The Forintek/F.E.R.I.C. Joint Venture Building Project

SCHEDULE I
Schedule of Assets, Liabilities and Project Balance
As at March 31, 1989

Assets	
Cash	$ 41,685
Short-term investments, at cost	6,174,082
Accounts receivable	349,518
Construction-in-progress, at cost	
Forintek Building	1,473,897
F.E.R.I.C. Building	188,401
Leasehold interest in land	4,000,000
	$12,227,583
Liabilities	
Accounts payable	$ 221,538
Due to Forintek Operating Fund	8,040
	229,578
Project Balance	
Contributions	11,998,005
	$12,227,583

SCHEDULE II
Schedule of Contributions
For the Nine-Month Period Ended March 31, 1989

Capital contributions	
Government of Canada	$ 727,693
Province of British Columbia	4,750,000
Forintek Canada Corp.	1,855,932
Forest Engineering Research Institute of Canada	500,000
	7,833,625
Other income	164,380
	7,998,005
Contributed leasehold interest in land	
Province of British Columbia	4,000,000
Balance at end of period	$11,998,005

See accompanying notes to financial statements.

BOARD OF DIRECTORS

Officers of the Corporation

P. Bienvenu
Chairman
President
Howard-Bienvenu Inc.

H.H. Ketcham III
Vice-Chairman
President and C.E.O.
West Fraser Timber Co. Ltd.

K.A. French
President and C.E.O.
Forintek Canada Corp.

J. Carette
Vice-President
Forintek Canada Corp.

J.A. Dangerfield
Vice-President
Forintek Canada Corp.

R.W. Stephens
Vice-President
Forintek Canada Corp.

P.K.P. Chau
Corporate Secretary
Forintek Canada Corp.

Board Committees

1 Executive
2 Audit
3 RPC East
4 RPC West
5 Building
* Chairman
** Vice-Chairman

Board of Directors

P. Bienvenu *(1)*
Chairman
President
Howard-Bienvenu Inc.

H.H. Ketcham III *(1) (5)*
Vice-Chairman
President and C.E.O.
West Fraser Timber Co. Ltd.

H.G. Sander *(1) (2*) (5)*
Past Chairman
President
Northwood Pulp and Timber Ltd.

T.M. Apsey
President and C.E.O.
Council of Forest Industries
of British Columbia

L.S. Armstrong
Deputy Minister
Commerce and Technology Dept.
Province of New Brunswick

I.A. Barclay *(5*)*
President
Ian A. Barclay & Associates

F. Burrows *(1) (3*)*
Vice-President,
Operations and Marketing
Normick Perron Inc.

K.A. French *(1) (3) (4) (5)*
President and C.E.O.
Forintek Canada Corp.

S.M. Fulton
Executive Vice-President
and C.E.O.
Canadian Pacific Forest
Products Limited
Tahsis Pacific Region

M. Gunther *(2)*
Vice-Chairman
Canadian Forest Products Limited

J.C. Mackay
Assistant Deputy Minister
Industry Marketing
Industry, Science and Technology
Government of Canada

G. Malette *(3)*
President
Malette Inc.

B.E. Marr
Deputy Minister
Ministry of Forests
Province of British Columbia

C.F. McCarthy *(1) (4*)*
Senior Vice-President,
Forest Products
Federated Co-operatives Limited

F.W. McDougall *(2)*
Deputy Minister
Department of
Forestry, Lands and Wildlife
Province of Alberta

J.-C. Mercier
Deputy Minister
Forestry Canada

H.M. Millar
President and C.E.O.
Millar Western Industries Ltd.

R.W. Neil *(4**)*
Senior Vice-President,
Wood Products
Fletcher Challenge Canada Limited

G. Paillé
Sous-ministre associé aux forêts
Ministère de l'énergie et
des ressources
Province de Québec

G. Tardif *(3)*
President and C.E.O.
Industries Maibec Inc.

SUPPORT TO THE BOARD

P.K.P. Chau
Corporate Secretary
Forintek Canada Corp.

P.U. Desjardins *(5)*

The **Executive Committee** acts on behalf of the Board in the intervals between Board meetings. It also approves all member applications.

The **Audit Committee** reviews any changes to accounting principles and the annual audit, and approves the financial statements on behalf of the Board.

The **Building Committee** oversees the Vancouver building project.

The **Research Program Committees** provide advice and guidance on the orientation of research and development programs, relate the programs to the immediate and long term needs of the wood products industry, and provide advice on the industrial application of Forintek work.

Research Program Committees

Forintek's **Research Program Committees (RPCs)** meet twice yearly to offer advice and guidance on Forintek's work program. RPC members are drawn from member companies, and federal and provincial governments. Their input helps keep Forintek activities tightly focused on industry's needs.

WESTERN CANADA

Chairman

C.F. McCarthy
Federated Co-operatives Limited

J. Biickert
Ministry of Forests
Province of British Columbia

J.A. Brennan
Alberta Forest Service

W. Calow
Forestry Canada

P. Gilbert
Council of Forest Industries
of British Columbia

M. McLeod
Blue Ridge Lumber (1981) Ltd.

D.E. McMullan
Fletcher Challenge Canada Ltd.

R.W. Neil
Fletcher Challenge Canada Ltd.

J. Newman
Weldwood of Canada Ltd.

W.M. Robson
Council of Forest Industries
of British Columbia

J.M. Rustad
Rustad Bros. & Co. Ltd.

J.F. Shaw
Canadian Wood Council

E.W. Smith
Industry, Science &
Technology Canada

K.A. French
Forintek Canada Corp.

J. Carette
Forintek Canada Corp.

J.A. Dangerfield
Forintek Canada Corp.

R.W. Stephens
Forintek Canada Corp.

EASTERN CANADA

Chairman

F. Burrows
Normick Perron Inc.

M. Bernier
Department of Commerce
and Technology
Province of New Brunswick

W. Calow
Forestry Canada

J. Coles
Ontario Tree
Improvement Council

G. Côté
Scierie Leduc Inc.

J.-P. Dubreuil
Dubreuil Brothers Limited

J.-P. Gilbert
Ministère de l'énergie
et des ressources
Province de Québec

E.L. Kelly
Industry, Science &
Technology Canada

D. Leavitt
MacMillan Bloedel Limited

G. Malette
Malette Inc.

P. MacQuarrie
Department of Lands and Forests
Province of Nova Scotia

G. Paillé
Ministère de l'énergie et
des ressources
Province de Québec

J.F. Shaw
Canadian Wood Council

K. Stone
Daishowa Forest Products Ltd.

G. Tardif
Industries Maibec Inc.

K.A. French
Forintek Canada Corp.

J. Carette
Forintek Canada Corp.

J.A. Dangerfield
Forintek Canada Corp.

R.W. Stephens
Forintek Canada Corp.

Forintek Members and Supporters

Forintek's Government Supporters, both federal and provincial, make contributions to Forintek's continuing R&D programs that will ensure the effectiveness of the Forintek Partnership over the intermediate and long term. As well, government contract funding carries many innovation projects through the critical stage of prototype evaluations and pilot plant scale-up, helping to transfer them to industry effectively.

Forestry Canada, Government of Canada
Ministry of Forests, British Columbia
Department of Forestry, Lands and Wildlife, Alberta
Department of Natural Resources, Manitoba
Ministère de l'énergie et des ressources, Québec
Department of Commerce and Technology, New Brunswick
Department of Lands and Forests, Nova Scotia

Industry Associations mobilize industry support and assistance across sectors and regions to further the process of technology transfer that is at the core of the Forintek Partnership. In 1988-89 the Associations expanded their support by funding major individual projects.

Alberta Forest Products Association
Cariboo Lumber Manufacturers' Association
Council of Forest Industries of British Columbia
Interior Lumber Manufacturers' Association
Northern Interior Lumber Sector of the Council of Forest Industries of British Columbia
Ontario Lumber Manufacturers' Association
Québec Lumber Manufacturers' Association
The Waferboard Association

Forintek's Associate Members are machinery, equipment, and chemical suppliers who are invited to participate in the implementation of the Forintek program for the benefit of the Canadian wood products industry.

Durand-Raute Industries Ltd.

Forintek's Industrial Members are corporations engaged in the manufacture of wood products in Canada who provide financial support, and contribute as "technology champions" by donating staff, material, and mill time to foster innovation in their business. These members are the essential driving force in the Forintek Partnership.

Alberta
A & V Logging Ltd.
Alberta Stake & Lath Ltd.
Atlas Lumber (Alberta) Ltd.
Bissell Bros. Lumber Ltd.
Blue Ridge Lumber (1981) Ltd.
Boss Timber Ltd.
Boucher Brothers Lumber Ltd.
Branch Pole Co. Ltd.
Brewster Construction Ltd.
Buchanan Lumber Ltd.
Centennial Lumber Ltd.
Charles H. Fluet Lumber Ltd.
Cowley Forest Products Ltd.
Dick, Benny
Double D. Dowels Ltd.
Double R. Forest Products Ltd.
E.N.A.P. Woodcraft Ltd.
Great West Lumber Specialties Ltd.
Grove Lumber & Manufacturing Ltd.
Hansen Forest Products
Henry Vasseur Custom Planing Ltd.
Jager Industries Inc.
Johnson Brothers Sawmills Ltd.
Kootenay Wood Preservers Ltd.
La Crête Sawmills
Lodgepole Ranch Ltd.
Michael's Forest Products Ltd.
Millar Western Industries Ltd.
Moen Lumber
Mostowich Lumber Ltd.
Natal Forest Products Ltd.

Industrial Members *(Continued)*

Negraiff Lumber & Construction Ltd.
Northern Lumber Co. Ltd.
Northland Forest Products Ltd.
O.K. Lumber Ltd.
Pelican Spruce Mills Ltd.
Prairie Lumber Ltd.
Procter & Gamble Cellulose Ltd.
Rehn (L.H.) Co.
Rinke & Sons Lumber Ltd.
Rocky Wood Preservers Ltd.
Saddle Lake Tribal Administration
Shadow Creek Enterprises
Spray Lake Sawmills (1980) Ltd.
Spruce Valley Mills Ltd.
Spruceland Millworks Ltd.
St. Jean Lumber (1984) Ltd.
Steep Hills Sawmills Ltd.
Sunchild Forest Products (1983)
Sundance Forest Products Ltd.
Sun Pine Forest Products Ltd.
Tall Pine Timber Co. Ltd.
Timeu Forest Products Ltd.
Vanderwell Contractors (1979) Ltd.
Wallach's Planing Mills
Westmark Products Ltd.
Zavisha Sawmills Ltd.
Zeidler Forest Industries Ltd.

British Columbia

Ainsworth Lumber Company Limited
Apollo Forest Products Ltd.
Ardew Wood Products Ltd.
Aspen Planers Ltd.
Atco Lumber Ltd.
Babine Forest Products Company Ltd.
Balfour Forest Products Inc.
Bridgeside Wood Products Ltd.
C & C Wood Products Ltd.
Canfor Corporation
Cantree Plywood Corp.
Crestbrook Forest Industries Ltd.
Dunkley Lumber Ltd.
Evans Products Company Ltd.
Federated Co-operatives Limited
Fletcher Challenge Canada Limited
Gorman Bros. Lumber Ltd.
Gregory Forest Products Ltd.
Houston Forest Products Company
International Forest Products Limited
Lakeland Mills Ltd.
Landucci Lumber Ltd.
Lignum Ltd.
Lytton Lumber Ltd.
MacMillan Bloedel Limited
Mill & Timber Products Ltd.
Nechako Lumber Co. Ltd.
Northwood Pulp and Timber Limited
Pas Lumber Company Ltd. (The)
Pope & Talbot Ltd.
Raven Lumber Ltd.
Riverside Forest Products Ltd.
Rustad Bros. & Co. Ltd.
Slocan Forest Products Ltd.
True Cut Sawmills and Manufacturing Ltd.
Weldwood of Canada Limited
West Fraser Timber Co. Ltd.
Weyerhaeuser Canada Ltd.

New Brunswick

Fraser Inc.

Nova Scotia

Barrett Lumber Co. Ltd.

Ontario

Chapleau Forest Products Limited
Dubreuil Brothers Limited
Eddy (E.B.) Forest Products Ltd.
Gogama Forest Products Ltd.
Grant Forest Products
Isabelle Brothers Limited
Lecours Lumber Company Limited
Levesque Plywood Limited
Malette Inc.
Martel (J.E.) & Sons Lumber Ltd.
Martin (G.W.) Lumber Ltd.
McRae Lumber Co. Ltd.
Murray Bros. Lumber Co. Ltd.
Noranda Panelboard Inc.

Québec

Adélard Moisan Ltée
Bois Laurentien Inc.
Produits forestiers canadien pacifique Ltée
Chassé Inc.
Consolidated-Bathurst Inc.
Daishowa Inc.
Donohue St-Félicien Inc.
Éloi Moisan Inc.
Entreprises Ribeyron Ltée (Les)
Félix Huard Inc.
Fontaine (J.A.) & Fils Inc.
Gagnon & Frères de Roberval Inc.
Gérard Crête & Fils Inc.
Gérard Lagacé Ltée
Howard-Bienvenu Inc.
Industries Grondin Ltée (Les)
Industries James Maclaren Inc.
Industries Maibec Inc.
J. Albert Poulin Ltée
Matériaux Blanchet, Inc.
Normick Perron Inc.
Société REXFOR
Servbois Inc.
Scierie des Outardes
Scierie Gallichan, Inc.
Scieries des Montagnes, Inc. (Les)
Scieries Saguenay Ltée
Scieries Mitis, Inc.
Simon Lussier Ltée
Tembec Inc.
Vigneault et Frères Inc.

Saskatchewan

Saskatchewan Forest Products Corporation

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